SONY

VGN-AR650U

VAIO® AR Gaming Notebook PC

MULTIMEDIA POWERHOUSE

Spacious 17" widescreen display[8] and full-sized keyboard.

NVIDIA® GeForce® Go 8400M GT graphics card will power you through today's graphic-intensive movies and games.

Media management software suite provides the tools needed to manage music, movies and photos.

HDMI™ connector provides single-cable HD connectivity to a compatible HDTV or A/V receiver

POWERFUL PERFORMANCE

Intel® Centrino® Duo processor technology and super-powerful Intel® Core™ 2 Duo processor T7500 (2.2GHz[1])

Roomy 320GB[2] hard drive and 2GB RAM.

Microsoft® Windows Vista® Ultimate is the most complete edition of Windows Vista™, with an array of advanced technologies.

SUPERIOR TECHNOLOGIES

802.11n offers a massive boost in speed and considerably more range than 802.11a/b/g[3].

Built-in 1.3 megapixel camera and microphone let you participate in video chats and conferencing[12]

Enjoy brilliant colors and stunning clarity while conserving power with XBRITE-ECO™ LCD technology

The VAIO® AR650 notebook is a 1080 HD multimedia gaming powerhouse featuring an NVIDIA® GeForce® Go 8400M GT graphics card, Intel® Core™ 2 Duo processor and stunning XBRITE-ECO™ LCD technology. Whether you're watching a movie in HD resolution or powering through the latest game, this desktop replacement is the ultimate entertainment notebook.

intel Centrino Duo Core 2 Duo inside

Windows Vista Ultimate

XBRITE-ECO™

dlna CERTIFIED

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VAIO® AR Gaming Notebook PC

Specifications

General

Computer Type: Notebook
Type of Use: Desktop Replacement
Action Buttons: S1, S2, AV Mode, Volume, Mute, Eject, Play/Pause/Stop, Wireless LAN On/Off, FF and Rewind

Hardware

Pointing Device: Electro-Static touch pad
Keyboard: QWERTY, 86 keys with 2.5mm stroke and 19.05mm pitch
Camera: Built-in 1.3 megapixel MOTION EYE® camera and microphone

Processor

Type: Intel® Core™ 2 Duo Processor T7500
Speed: 2.2GHz[1]
Front Side Bus Speed: 800MHz
L2 Cache: 4MB Advanced Smart Cache
Technology: Intel® Centrino® Duo processor technology

Memory

Type: DDR2 SDRAM
Installed: 2GB (1GBx2) PC2-5300
Maximum: 4GB[16]
Speed: 667MHZ

Hard Drive

Capacity: 320GB[2] (160GB x2)
Speed: 5400rpm
Interface: Serial ATA

Optical Drive #1

DVD+R DL Write: 4x max.
DVD+R Write: 8x max.
DVD+RW Write: 8x max.
DVD-R Write: 8x max.
DVD-RW Write: 6x max.
CD-R Write: 24x max.
CD-RW Write: 16x max.
DVD±RW: Yes[4]
CD Read: 24x max.
DVD Read: 8x max.
DVD-RAM Write: 5x max.
DVD-R DL Write: 4x max.
DVD-RAM Read: 5x max.

Expansion Slots

Multimedia Card Reader: Supports Memory Stick® and Memory Stick Duo™ media[5] with MagicGate® functionality and Secure Digital Media (SD)
One PCMCIA - Type II/Type I card slot with CardBus support
One ExpressCard® /54 Slot

Audio

Sound System: Sony® Sound Reality™ - Audio Enhancer

Display

Screen or Display Technology: WXGA+
Screen Size: 17"[8]
Resolution: 1440x900
XBRITE-ECO™ Technology: Yes

Graphics

Processor: NVIDIA® GeForce® 8400M GT Graphics Processing Unit
Video RAM: 256MB Dedicated Video Memory

Inputs and Outputs

Ethernet Port: 1
HDMI™ Connection Output(s): 1
Headphone Jack: 1
i.LINK® Interface: 1 (4pin) i.LINK® connector (IEEE 1394)[6]
Modem Jack: 1
Microphone Input: 1
S-Video Output(s): 1
USB Port(s): 3 (2.0 compliant)
VGA Output(s): 1
DC-In: 1
S/PDIF Output(s): 1

Networking/Modem

Ethernet Protocol: Fast Ethernet (RJ-45)
Ethernet Speed: 10Base-T/100Base-TX/1000Base-T
Modem Type: Integrated V.92/V.90 Modem with (RJ-11)
Wireless LAN: Intel® PRO/Wireless 4965AGN Network Connection (802.11a/b/g/n)[3]

Power

Battery Type: Standard Capacity Battery (VGP-BPS9/B)
Estimated Battery Life: 1.5 to 3.5 hours[7] with standard battery
Power Requirements: 150W+10%

Software

Operating System: Microsoft® Windows Vista® Ultimate
Internet Services: AOL® 90-Day Risk Free Trial - New Users Only
Supplied Software: Microsoft® Works SE 9.0 w/ 60-Day Trial Version of Microsoft® Office Home and Student 2007[13]
Sony® Original Software: Click to DVD® - DVD Creation, LocationFree® Player
*Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.
Security and Anti-Virus Software: Norton 360™ All-In-One Security 60-day Trial

Service and Warranty Information

Limited Warranty: 1 Year Limited Warranty[9]. See actual warranty for details.
Telephone Support: 1 year toll-free technical telephone assistance, available 24/7[11]
Online and Email Support: Support available from http://www.esupport.sony.com/EN/VAIO See actual warranty for details.

Dimensions

Weight: 8.1 lbs. with standard battery[15]
Measurements: 16.4"(W) x 1.32"(H) x 11.8"(D)[15]

Supplied Accessories

Standard Lithium-ion Battery (VGP-BPS9A/B)
AC Adapter (VGP-AC19V15)
Power Cord

Optional Accessories

Additional Standard Capacity Battery (VGP-BPL9A/B)
Additional AC Adapter (VGP-AC19V15)
Large Capacity Battery (VGP-BPL9)
Universal Carrying Case (VGP-AMB1)
Notebook Roller Case (VGP-AMB6)
Neoprene Notebook and AC Adapter Case (VGP-AMC2)
USB Laser Mouse (VGP-UMS55/B)
Wireless Presentation Mouse (VGP-WMS50A)
All-in-one 2.1 Channel Speaker (VGP-SP100)
USB Floppy Drive (VGP-UFD1)

Color: Black
UPC Code: 027242725225

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires a compatible 802.11n access point. Some functionality may require Internet services, which may require a fee.
4. DVD Media/Formats are not universally compatible.
5. Supports Memory Stick PRO™ high-capacity media tested up to 8GB.
6. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
7. Actual battery life may vary based on product settings, usage patterns, battery and environmental conditions.
8. Viewable area measured diagonally.
9. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.sony.com/pcsupport, call toll-free 888-476-6972 (888-4SONYPC), or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
10. Use of this Bluetooth enabled product with other devices may vary as not all Bluetooth devices are compatible.
11. For certain third party software applications, Sony provides first level Phone Support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the applicable software vendor.
12. Broadband connection is required along with third party services which may require a subscription fee and other service fees.
13. 60-Day Trial Version of Microsoft® Office 2007 - This trial software will work only for 60 days after you first use it. You will not be able to use the software if you do not activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instructions presented during setup and paying the required fees.
14. Total Available Graphics Memory refers to the new Microsoft® Windows Vista® classification of graphics memory, which is the total of Dedicated Video Memory, System Video memory and Shared System Memory. Shared System Memory vaires depending on the operating condition and system memory size.
15. Non-metric measures are approximate and may vary.
16. A portion of the system memory over 3GB available to the operating system.

Computer Interface: The computer industry lacks standards, and therefore, there are a multitude of varying software packages and add-on hardware options. This personal computer is not manufactured to operate any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned in this document. Sony hereby disclaims any representations or warranty that this product is compatible with any combination of products you may choose to connect. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony Notebook Computer are subject to change without notice. Simulated graphic shown on display. Pre-installed software may not be identical to retail versions or have all documentation. This product meets the standards of the International Energy Star Program for energy efficiency. Features and specifications are subject to change without notice. Lamp in this product contains mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).

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